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MEMORANDUM FOR: Director of Central Intelligence

THROUGH:

Deputy Director/Intelligence

SUBJECT:

Primary Energy Production in the Sino-Soviet

Bloc and the Free World

This memorandum is in response to your request for comparative data on the growth of primary energy production in

in the Sino-Soviet gloc and the Free World,

production of heat and power. It is derived principally from solid fuels, petroleum predunts, and fabling water). in its use is an indication of economic development.

2.8. During the next five years the Sino-Soviet Bloc plans a higher rate of growth in energy production than the Free World. Bloc energy production in 1955 equal ted about 30 Free World production. In 1960 it will increase to about \$ 40 percent. Despite this relative increase, however, the absolute gap between the Bloc and the Free

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World will not decrease. In fact the Free Worldsprimary energy production will increase 15,200 trillion Btu while Bloc production will increase 12,600 trillion Btu. Thus the gap will grow about 5 percent.

34. Soviet Bloc energy productions is primarily dependent on solid fuels while Free World energy production is primarily dependent on petroleum, production of petroleum increases, however, the importance of solid fuels & A. declining. By 1960, solid fuels are expected to supply only about 75 percent of total Bloc energy production compared with about 81 percent in 1955,

45. In 1955, hydro power contributed only one half of one percent total Sino-Soviet Bloc energy production and only 2 percent to the Free World total. These ratios will not change significantly by 1960.

5. Electricity/from nuclear energy will not affect

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significantly the world output of primary energy in 1960. In the mulitary and "praceful" fact, in 1960 nuclear energy programs of the US and USSR will still use more electricity than will be generated by plants powered with nuclear fuel.

The USSR has announced that by 1960 it will have from 2,000,000 to 2,500,000 kilowatts of generating capacity of powered will artilizing nuclear fuel. If completed, these power plants could supply over him percent of total Soviet electric power output.

Announced US plans provide for capacity of only 800,000 kilowatts by 1960 which could supply about one half of one percent of total US electric power output forecast for 1960.

total energy output in 1955, will increase this share to 62 percent in 1960. Conversely, the US share in the Free World output will drop very slightly and will amount to about one half of the Free World total in 1960.

78. The attached charts present the above data graphically. The attached table presents detailed data on the regional

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growth production of primary energy by principal categories.

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